

**FIGURE 1**

# THE UNIVERSITY OF CHICAGO

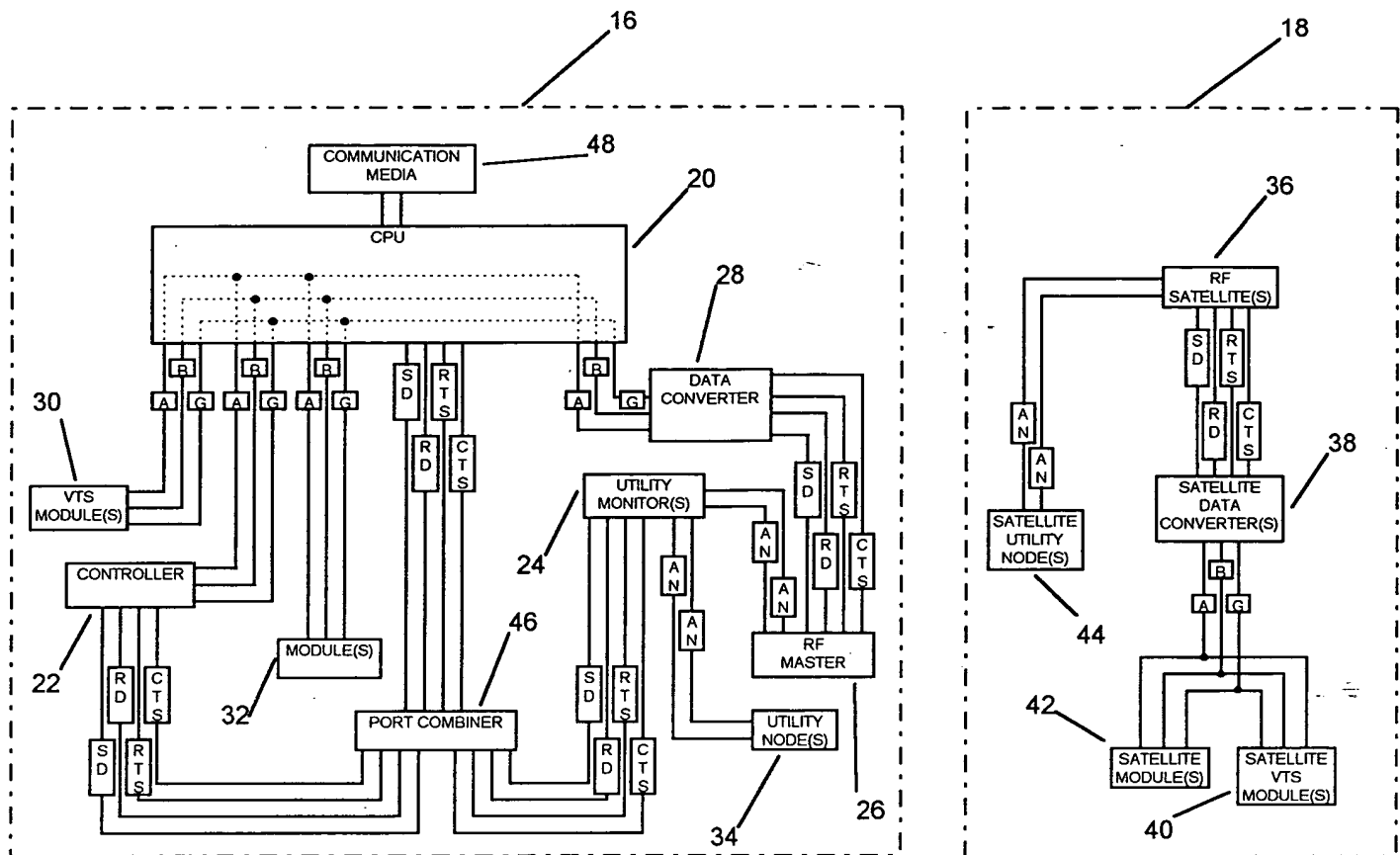


FIGURE 2A

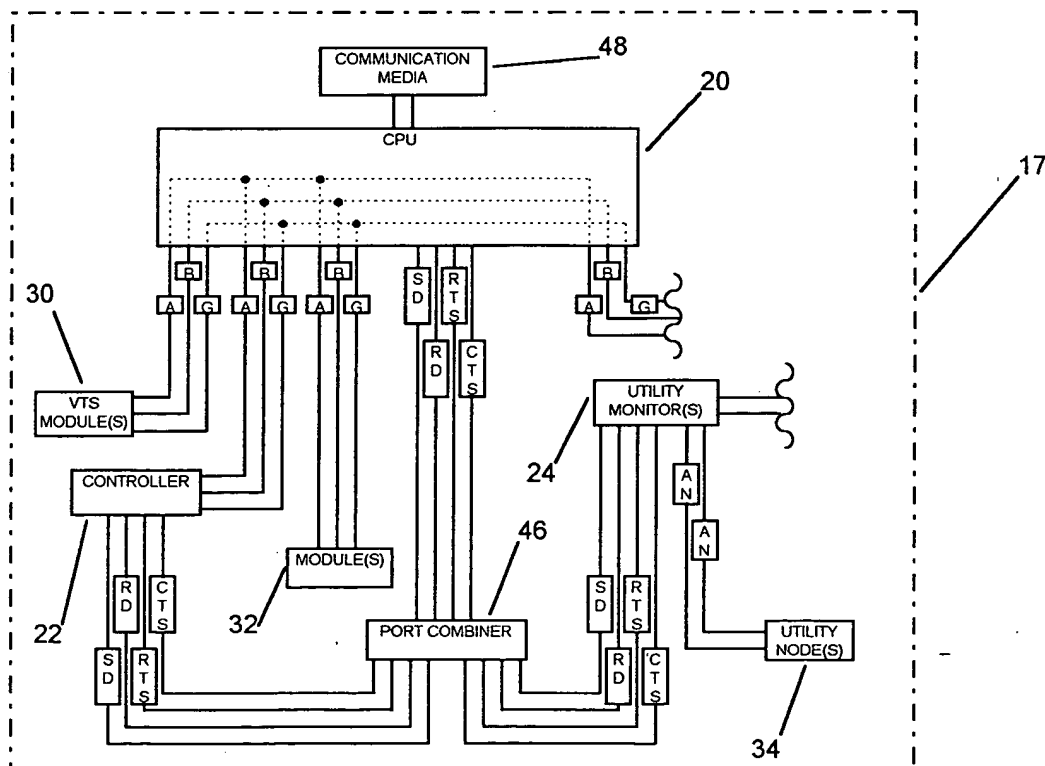


FIGURE 2B

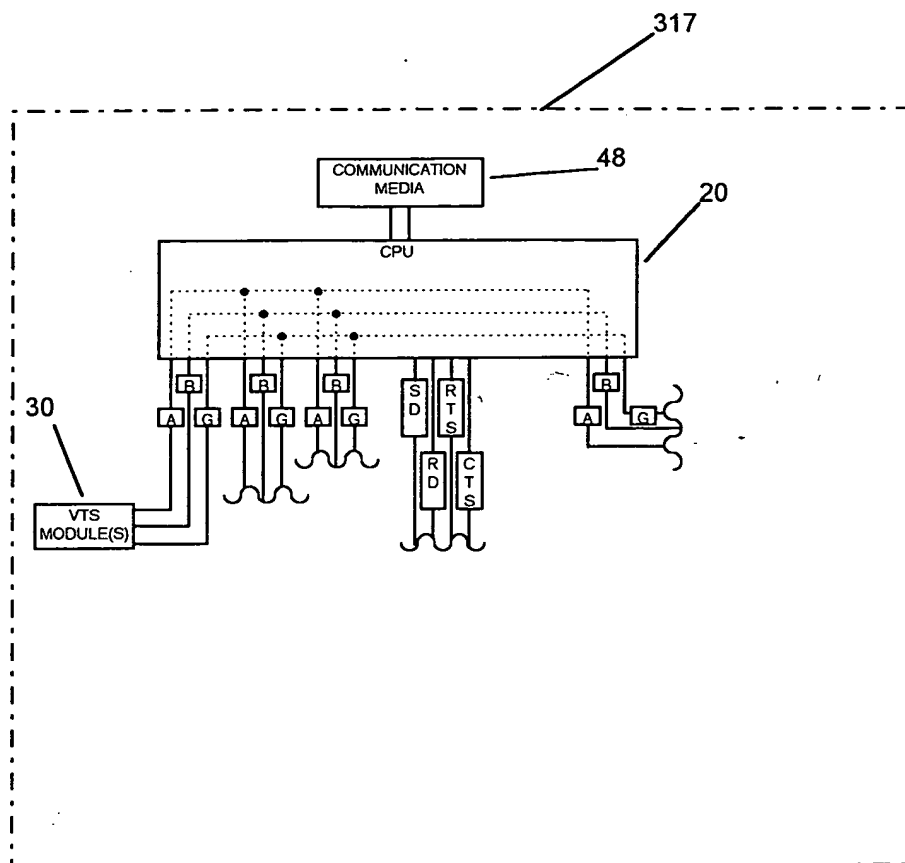


FIGURE 3A

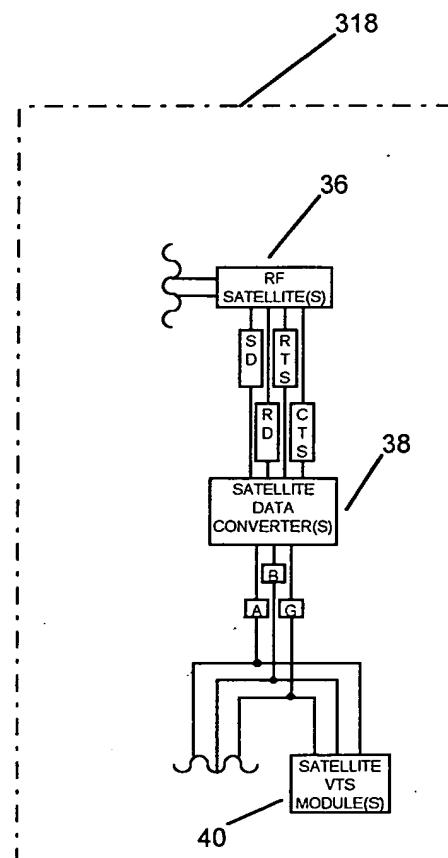
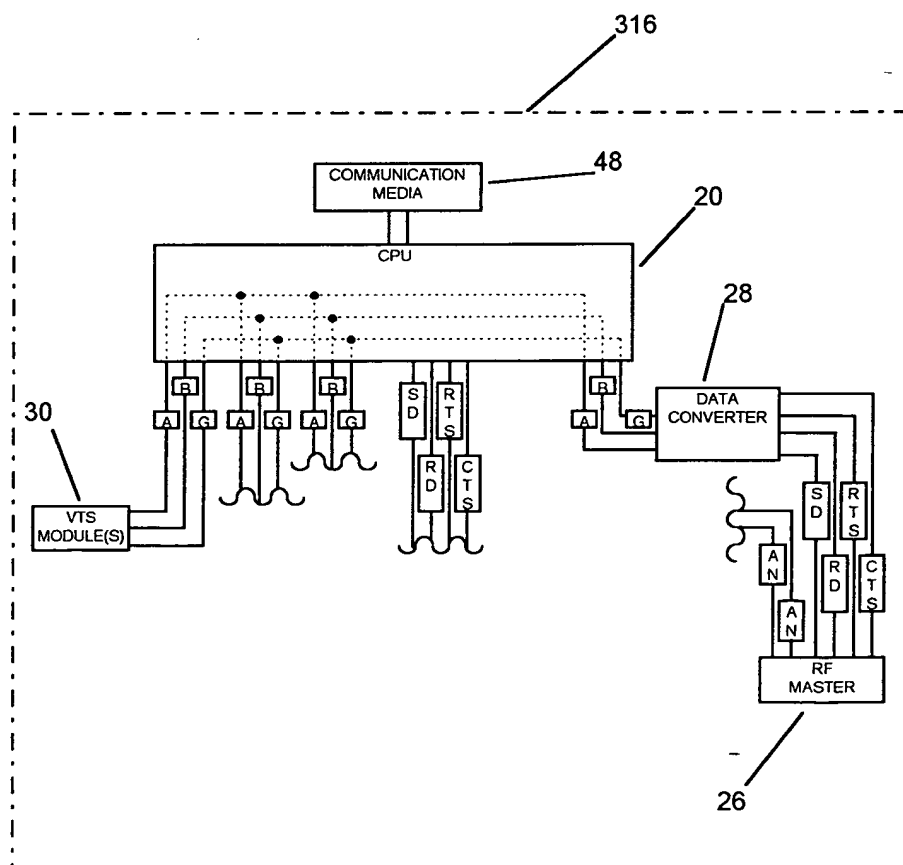


FIGURE 3B

2025 RELEASE UNDER E.O. 14176

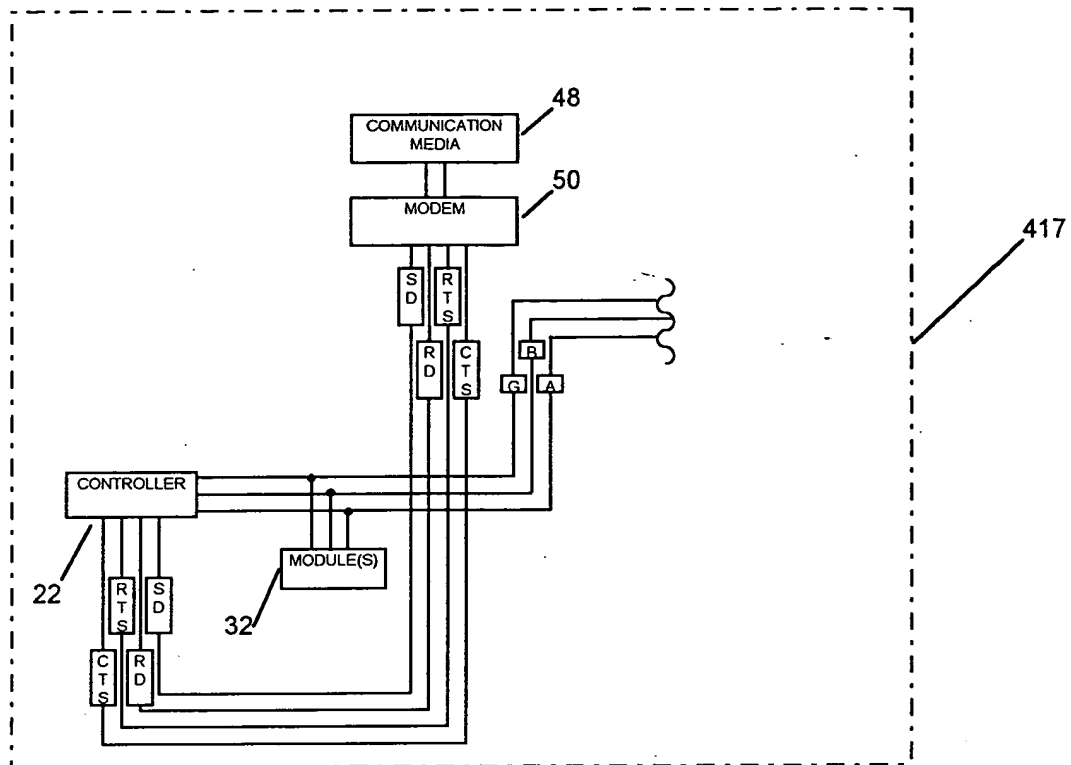


FIGURE 4A

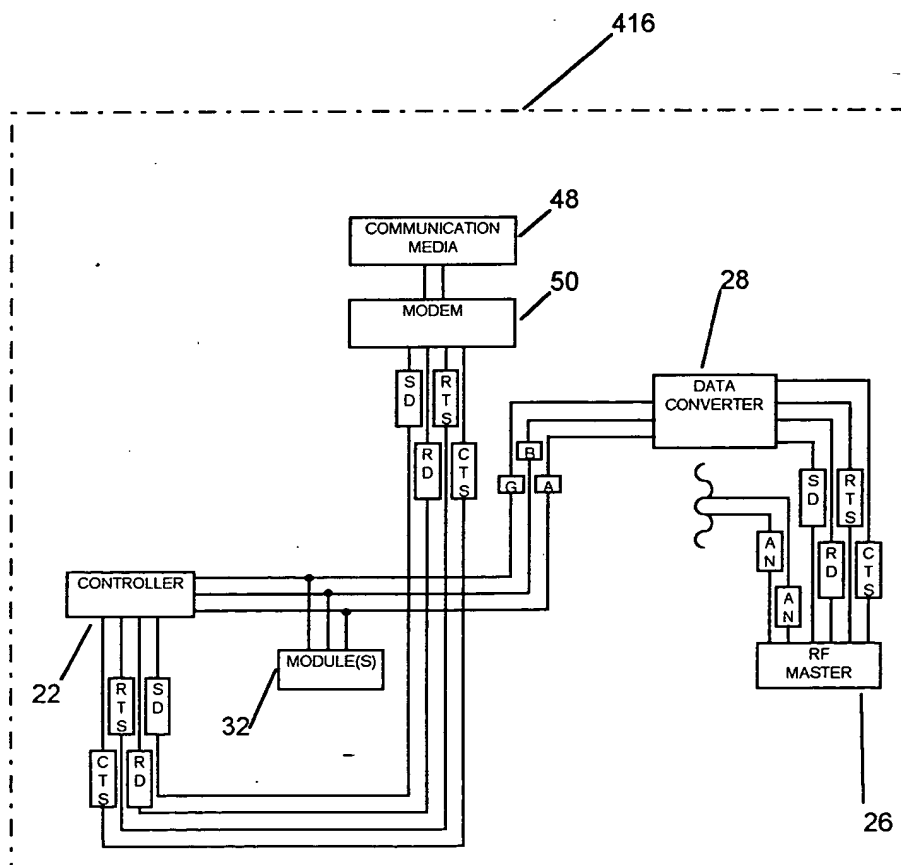
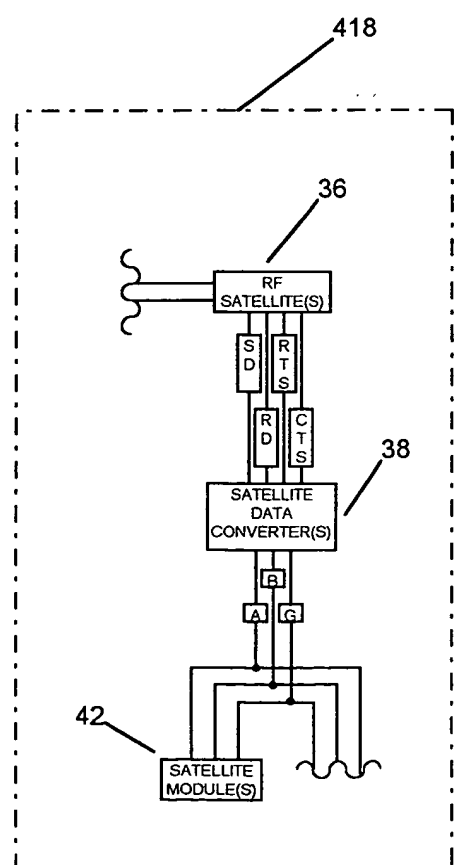


FIGURE 4B



2025 RELEASE UNDER E.O. 14176

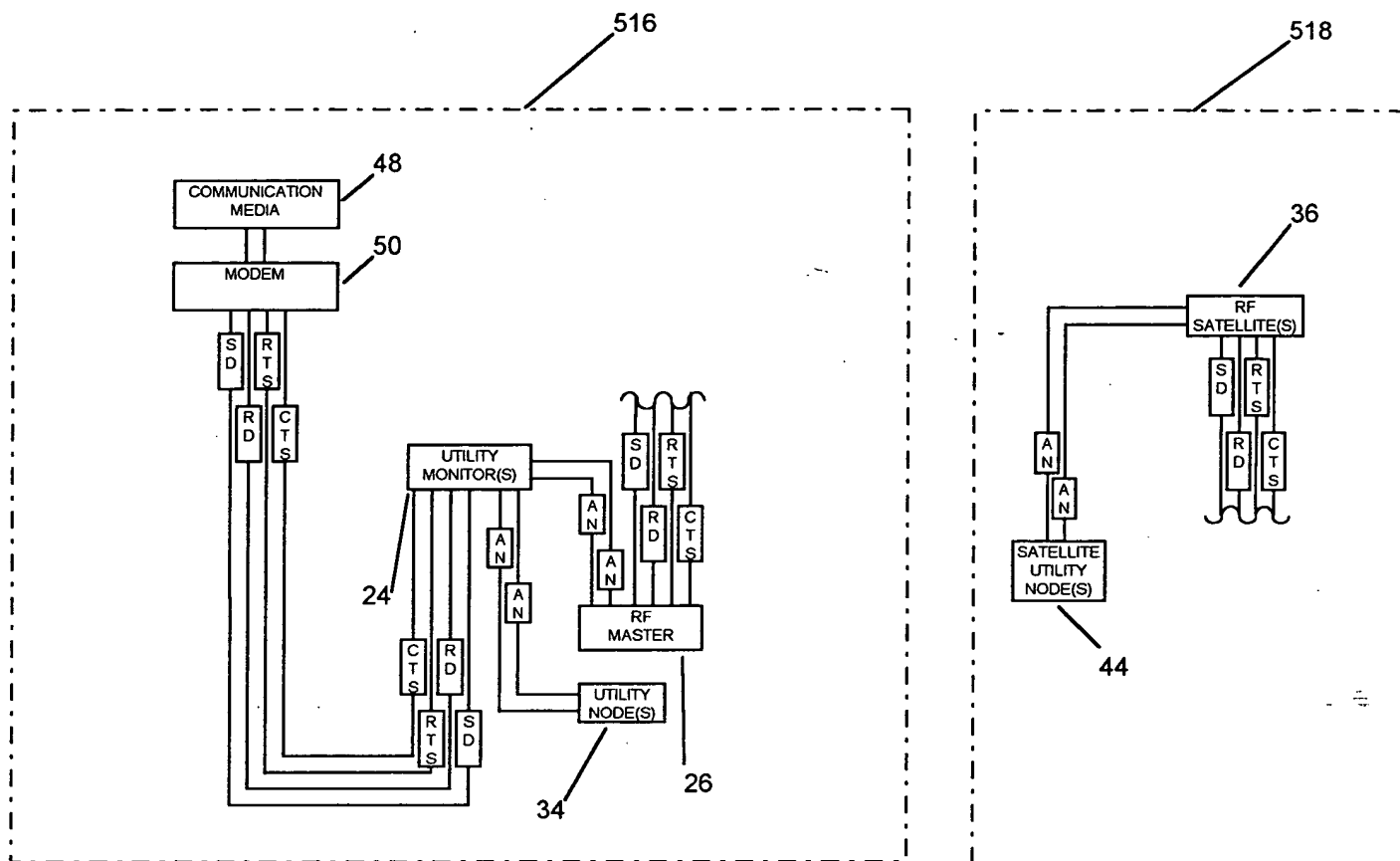


FIGURE 5B

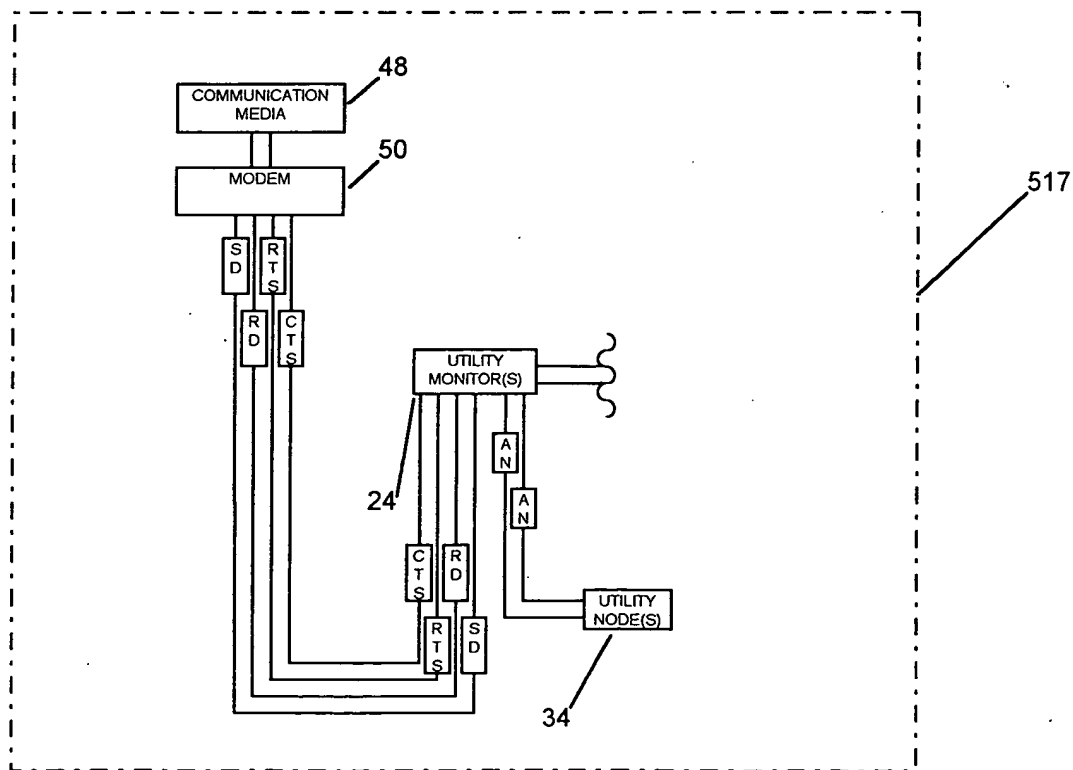


FIGURE 5A

[illegible]

**FIGURE 6B**

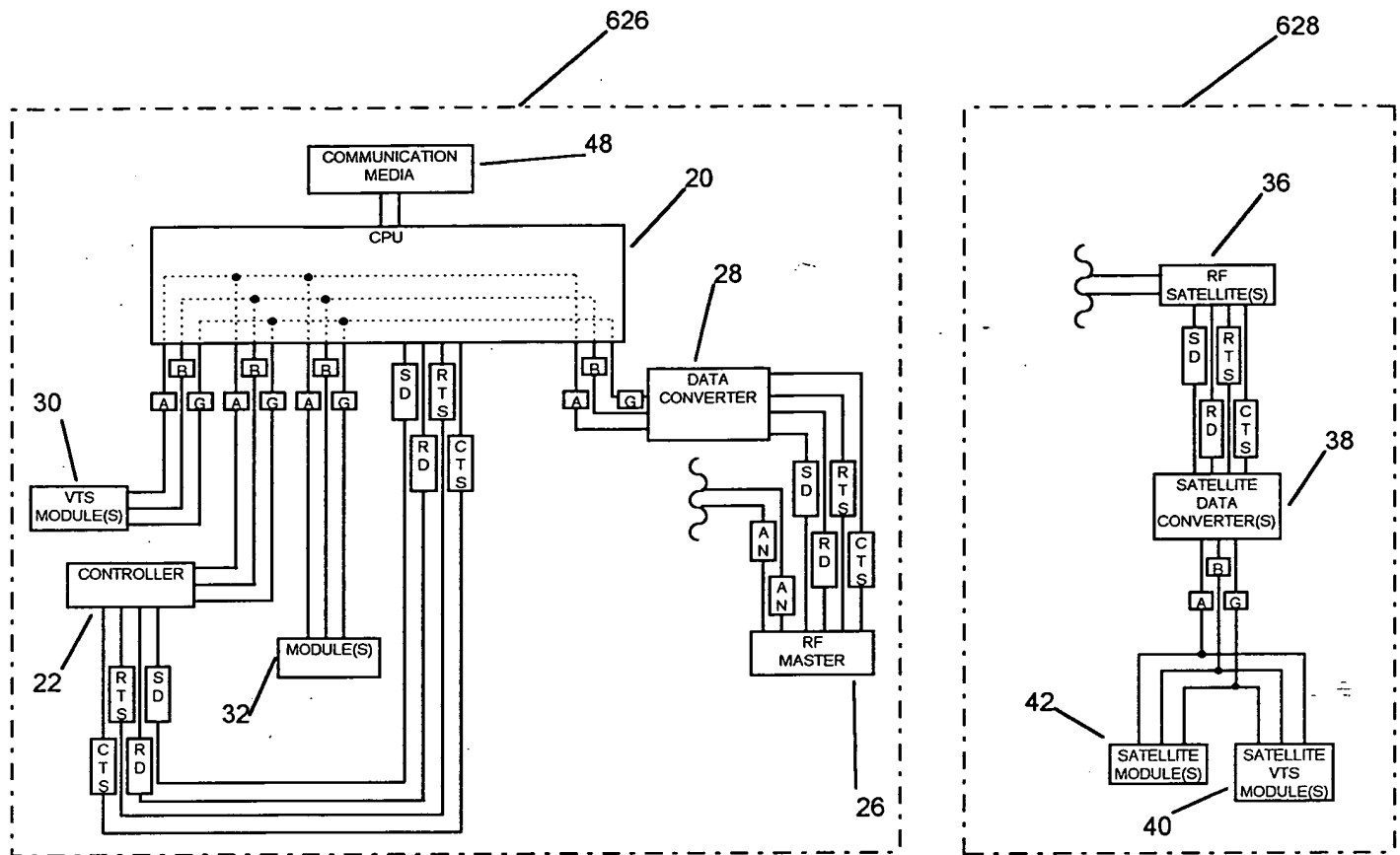


FIGURE 6C

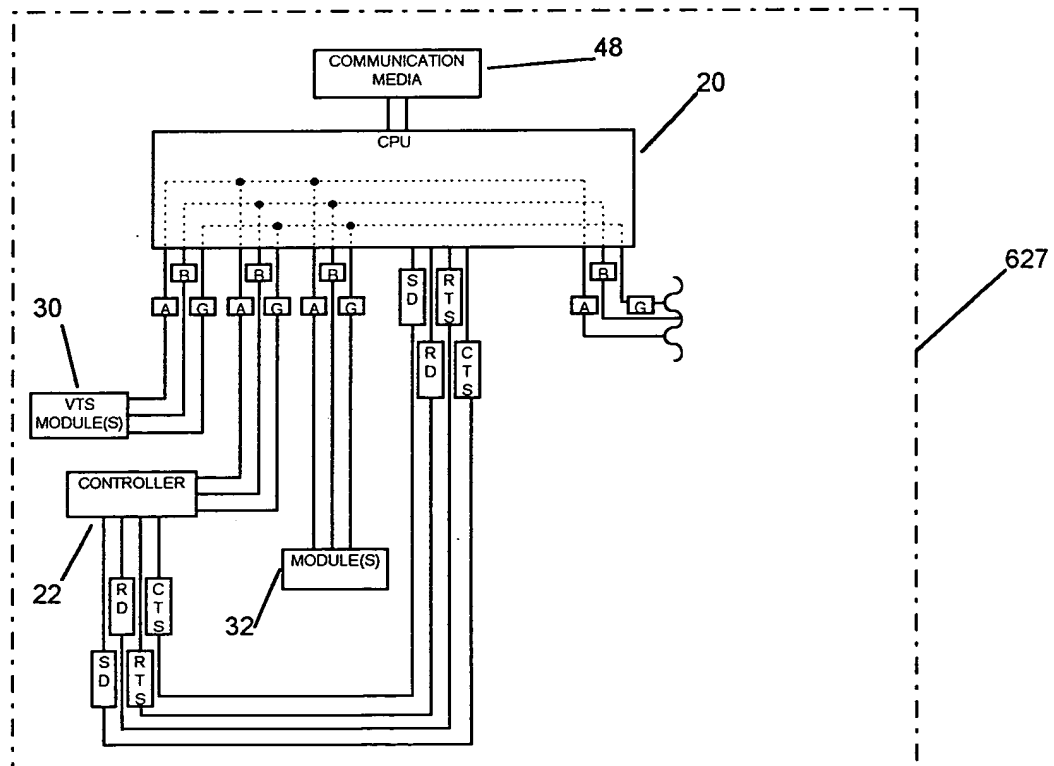


FIGURE 6D

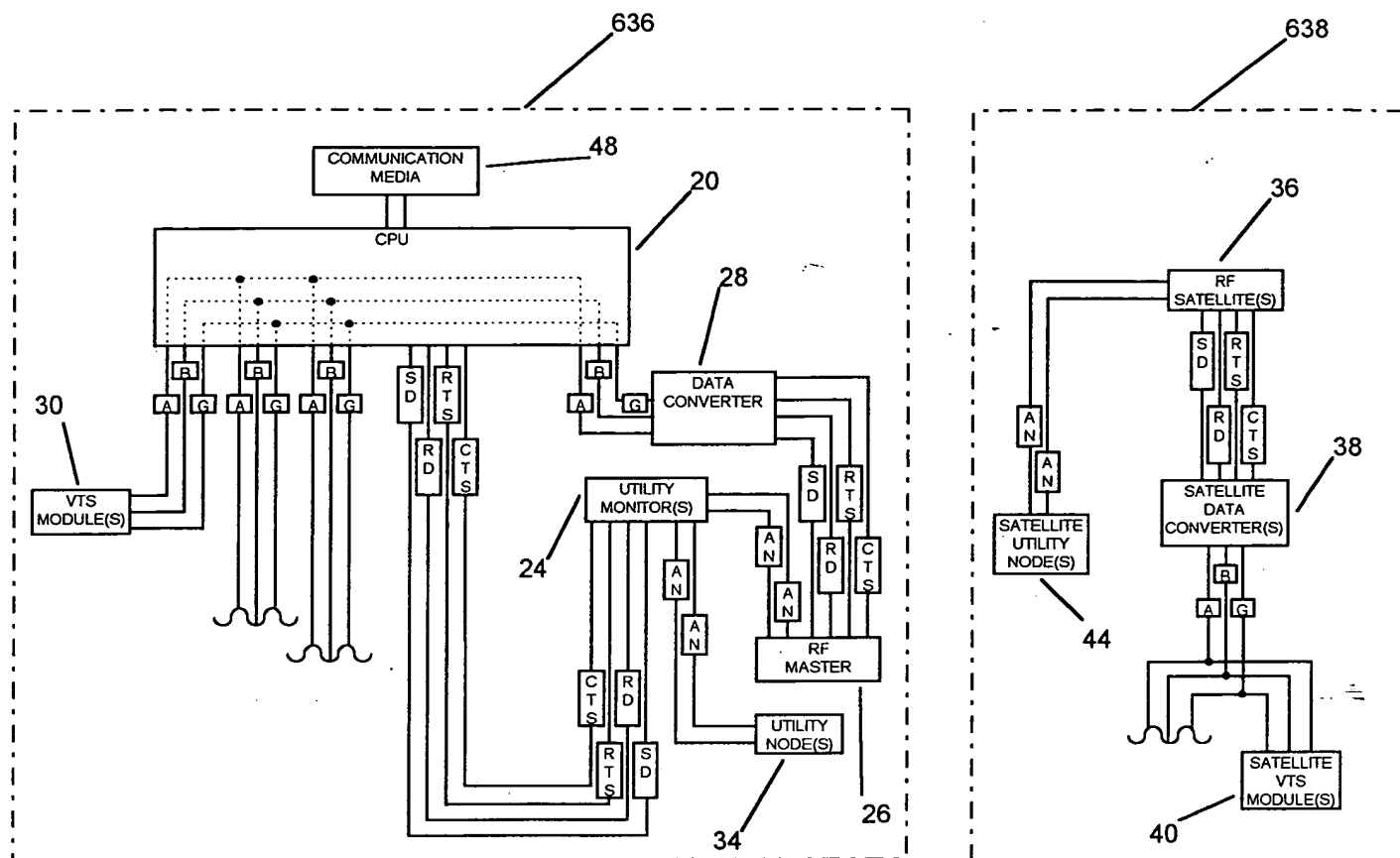


FIGURE 6E

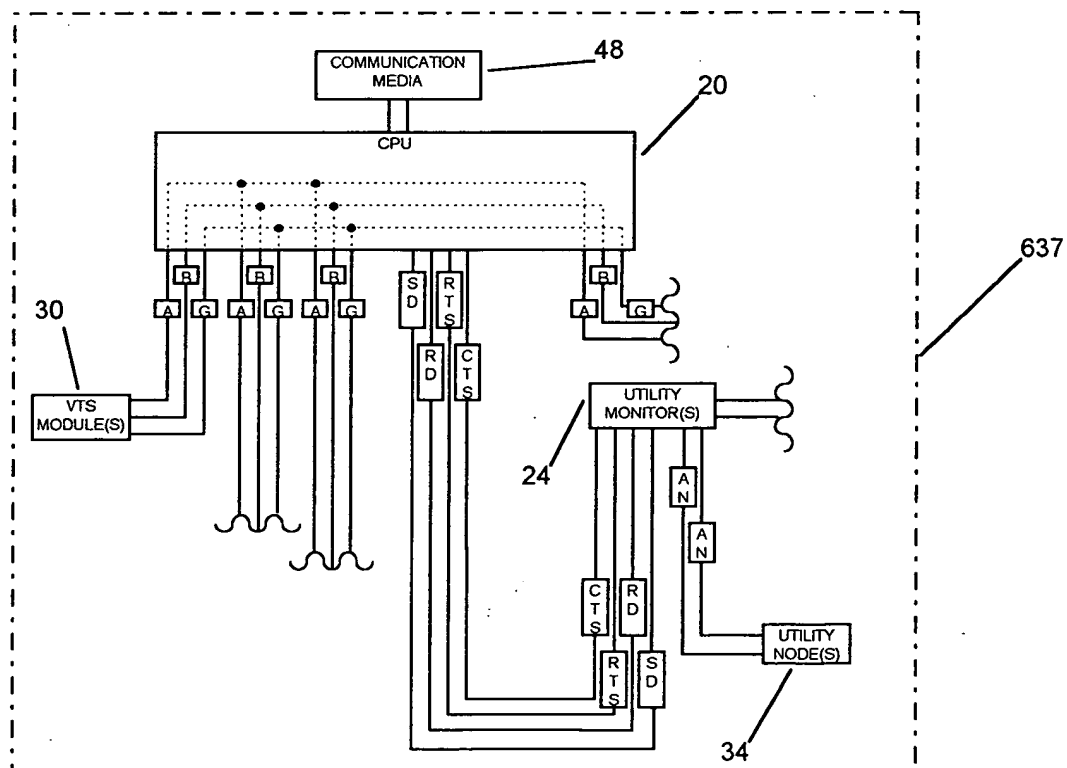


FIGURE 6F



```

graph TD
    700([REMOTE COMMUNICATION BEGIN]) --> 702{CD RAISED?}
    702 -- NO --> 704[REMOTE COMMUNICATION STOP]
    702 -- YES --> 706[REMOTE SOFTWARE ACTIVE]
    706 --> 708{MODEM RECEIVING DATA REMOTELY?}
    708 -- YES --> 710[MODEM DROPS CTS LINE]
    710 --> 712{VTS DATA?}
    712 -- YES --> 714[SOFTWARE STORES NUMBER OF VTS BYTES IN CVDR]
    714 --> 716[DATA ROUTED TO RAM FOR VTS SOFTWARE]
    716 --> 718[CVDR SET TO 0]
    718 --> 740{MODEM CTS LINE RAISED?}
    740 -- NO --> 712
    740 -- YES --> 742{PORT COMBINER RTS LINE RAISED?}
    742 -- YES --> 746[VTS MONITORS RTS LINE]
    746 --> 748[DATA RECEIVED AND TRANSMITTED BY MODEM]
    748 --> 738[CONTROLLER OR UTILITY MONITOR WAITS]
    738 --> 702
    742 -- NO --> 744[VTS SOFTWARE DISABLES PORT COMBINER]
    744 --> 746[DATA SENT TO MODEM BY VTS SOFTWARE]
    746 --> 748[DATA RECEIVED AND TRANSMITTED BY MODEM]
    748 --> 738
    708 -- NO --> 736[MODEM RAISES CTS LINE]
    736 --> 728{PORT COMBINER CTS RAISED?}
    728 -- YES --> 730[RESPONDING DEVICE RAISES RTS LINE]
    730 --> 732[PORT COMBINER DROP CTS TO OTHER SLAVE PORT]
    732 --> 734[DATA RECEIVED AND TRANSMITTED BY MODEM]
    734 --> 738
    728 -- NO --> 738
    712 -- NO --> 720[DATA ROUTED THROUGH PORT COMBINER]
    720 --> 722[DATA TRANSMITTED ON PORT COMBINER SLAVE PORTS]
    722 --> 724[CONTROLLER AND UTILITY MONITOR RECEIVE DATA]
    724 --> 726[CONTROLLER OR UTILITY MONITOR CHECK CTS LINE]
    726 --> 728
  
```

**FIGURE 7**

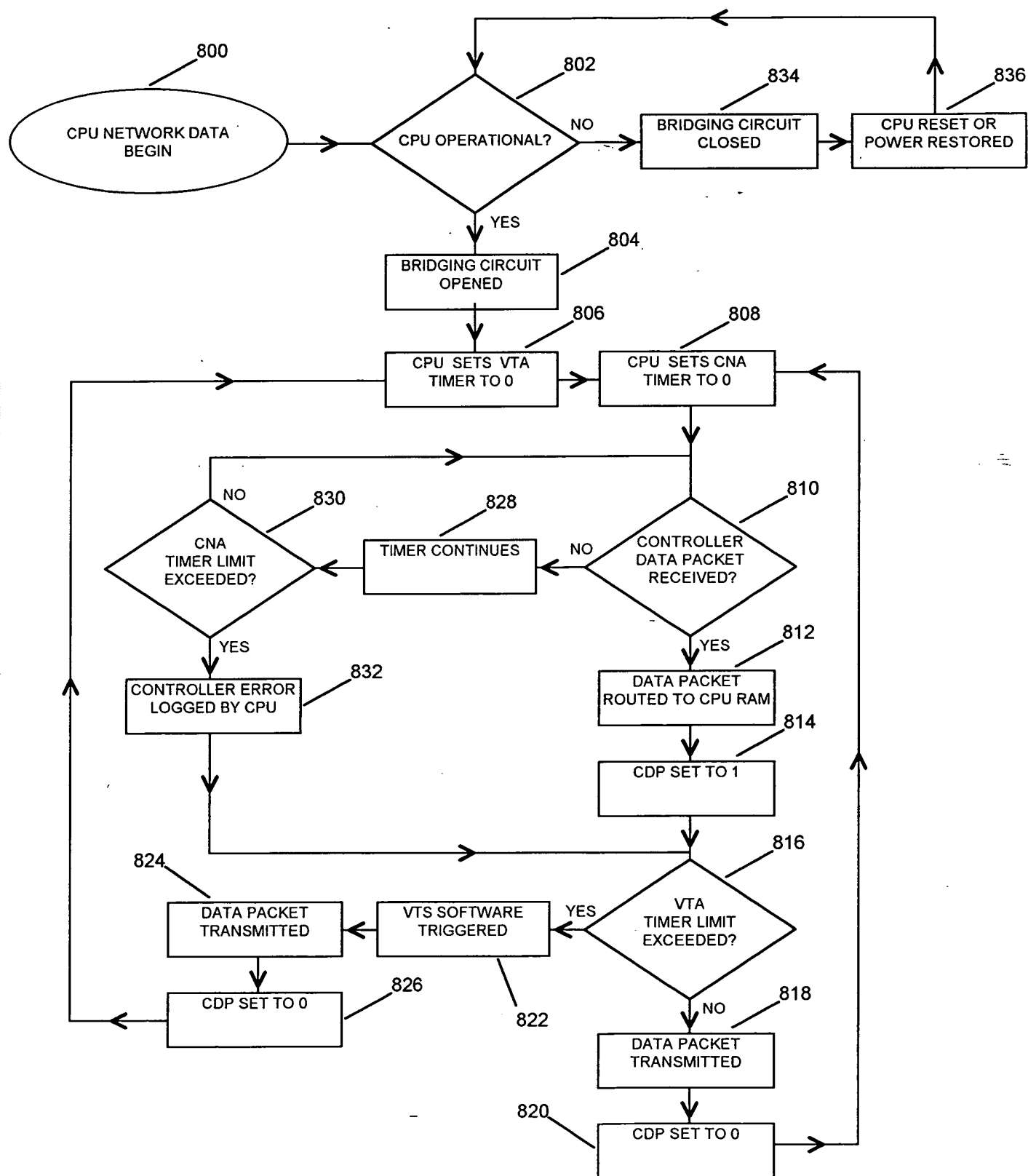


FIGURE 8

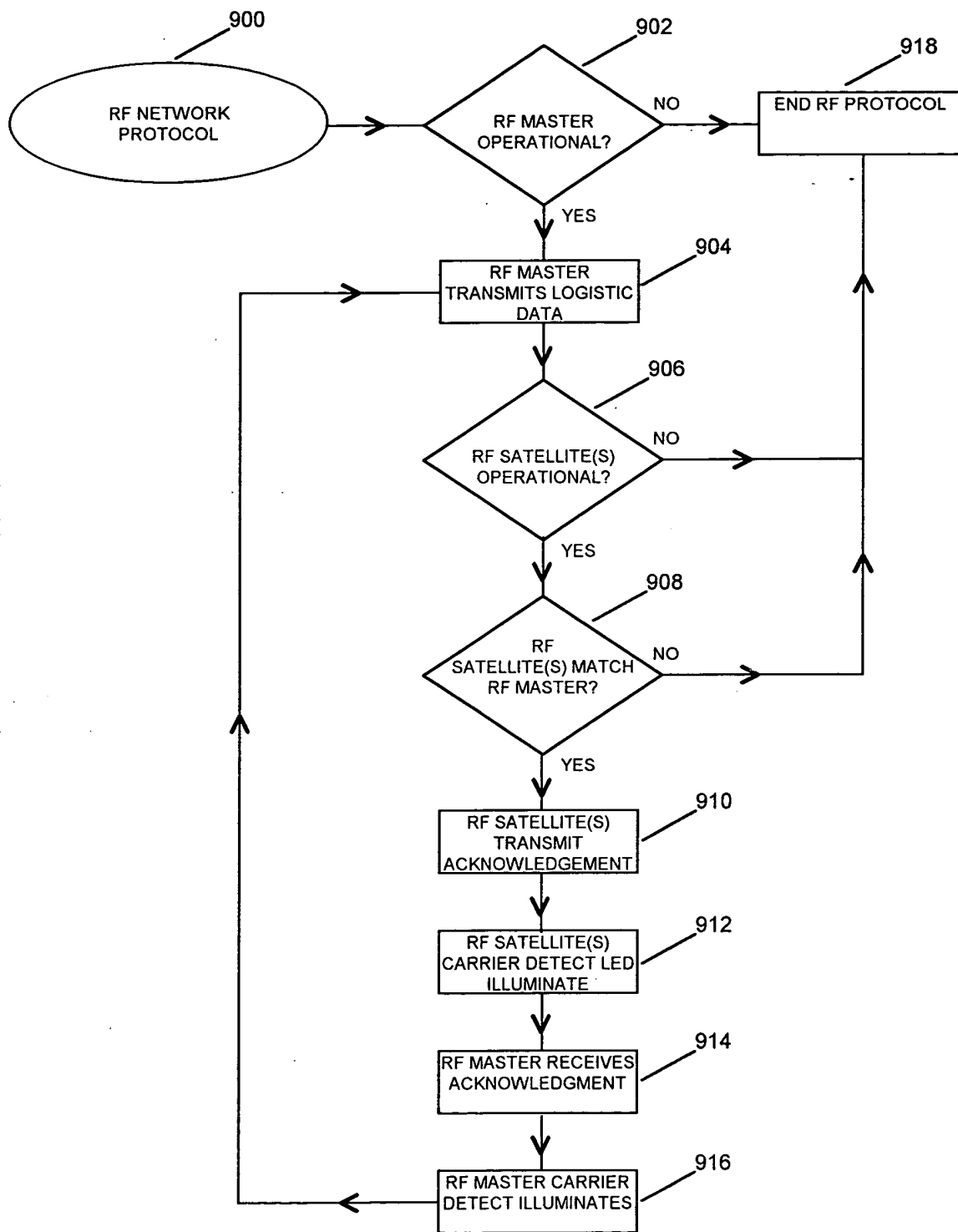


FIGURE 9



```

graph TD
    1100([RF SATELLITE UTILITY  
DATA BEGIN]) --> 1102[RF SATELLITE PROCESSOR  
SCANS ADC]
    1102 --> 1104[RF SATELLITE PROCESSOR  
RETRIEVES CURRENT ADC DATA]
    1104 --> 1106[ADC DATA SENT TO UDB(S) RAM  
LOCATION]
    1106 --> 1108[EXISTING UDB(S) RELOCATED TO  
LUDB(S) RAM LOCATION]
    1108 --> 1110[RF SATELLITE PROCESSOR  
COMPARES UDB(S) AND LUDB(S)  
VALUE]
    1110 --> 1112{CHANGE OF  
VALUE(S)?}
    1112 -- YES --> 1114[COS(S) CHANGED TO  
VALUE OF 1]
    1114 --> 1116[UBD(S) WITH COS(S) = 1  
ROUTED TO NEW RAM LOCATION]
    1116 --> 1118[UBD(S) WITH COS(S) = 1  
IDENTIFIED AS NUDB(S)]
    1118 --> 1120[RF SATELLITE PROCESSOR  
COUNTS NUDB(S) AVAILABLE]
    1120 --> 1122[NUDB COUNT BYTE  
GENERATED]
    1122 --> 1124[RF SATELLITE PROCESSOR  
INITIATES ROM TABLE  
CONVERSION]
    1124 --> 1126[NUDB COUNT BYTE ADDED TO  
CURRENT DATA STRING]
    1126 --> 1128[CONVERTED NUDB(S) ADDED TO  
CURRENT DATA STRING]
    1128 --> 1130[CURRENT DATA STRING SENT  
TO RF RADIO TRANSCEIVER FOR  
TRANSMISSION]
    1130 --> 1102

```

FIGURE 11

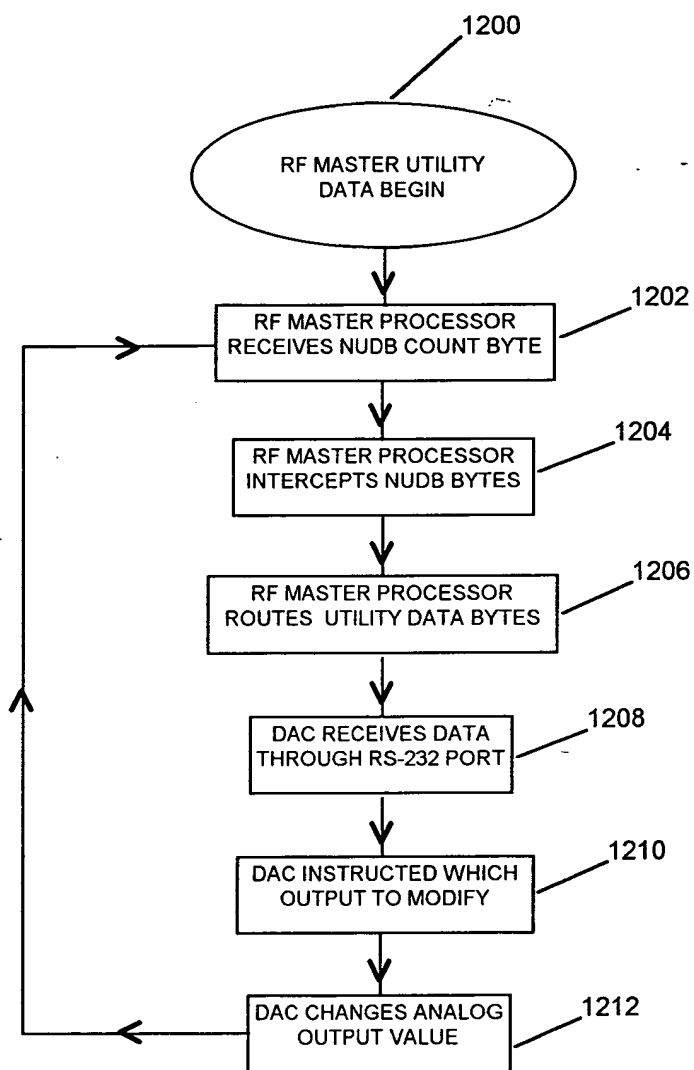


FIGURE 12

1300 1302 1304 1306 1308 1310 1312 1314 1316 1318 1320 1322 1324 1326

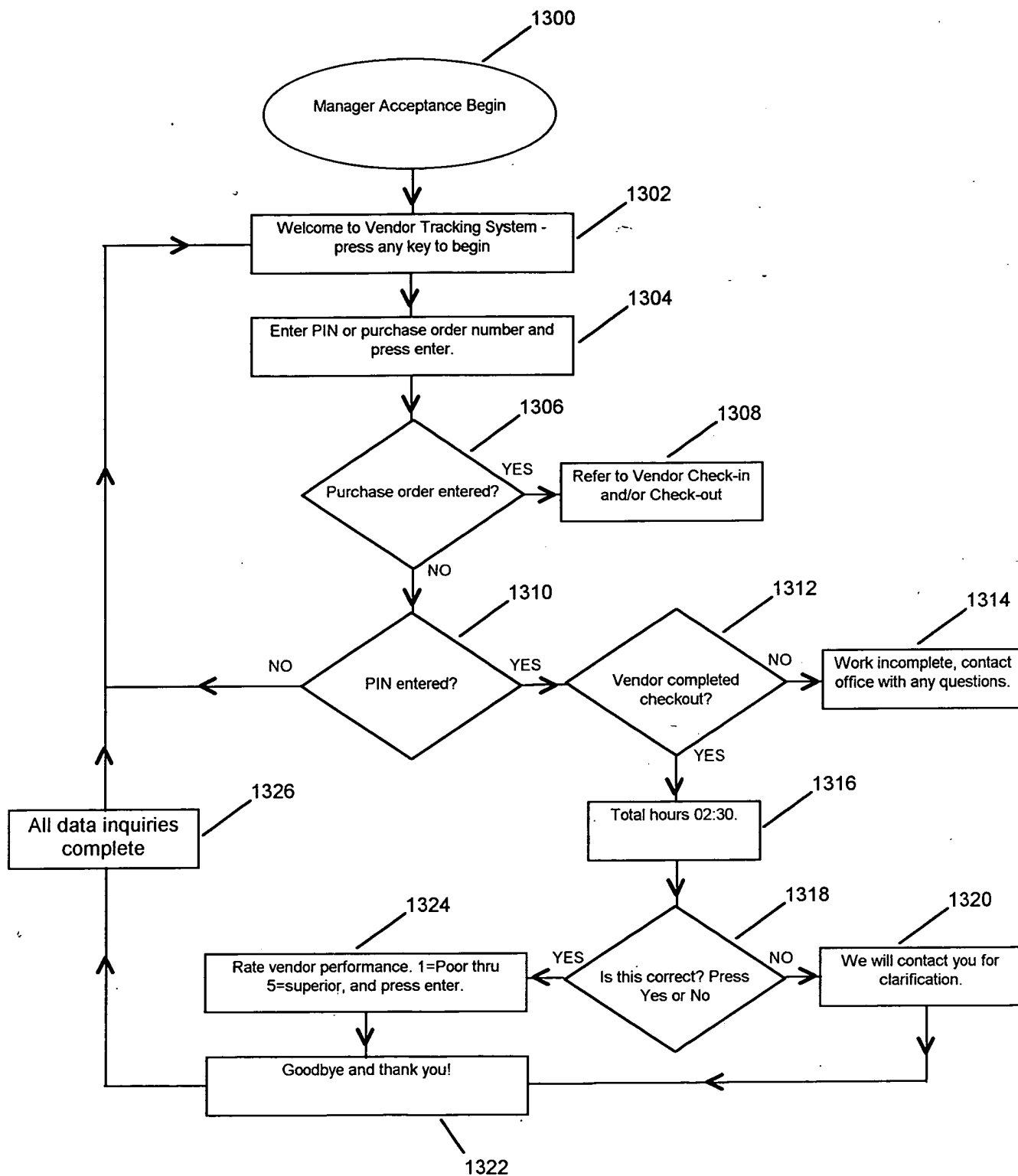


FIGURE 13

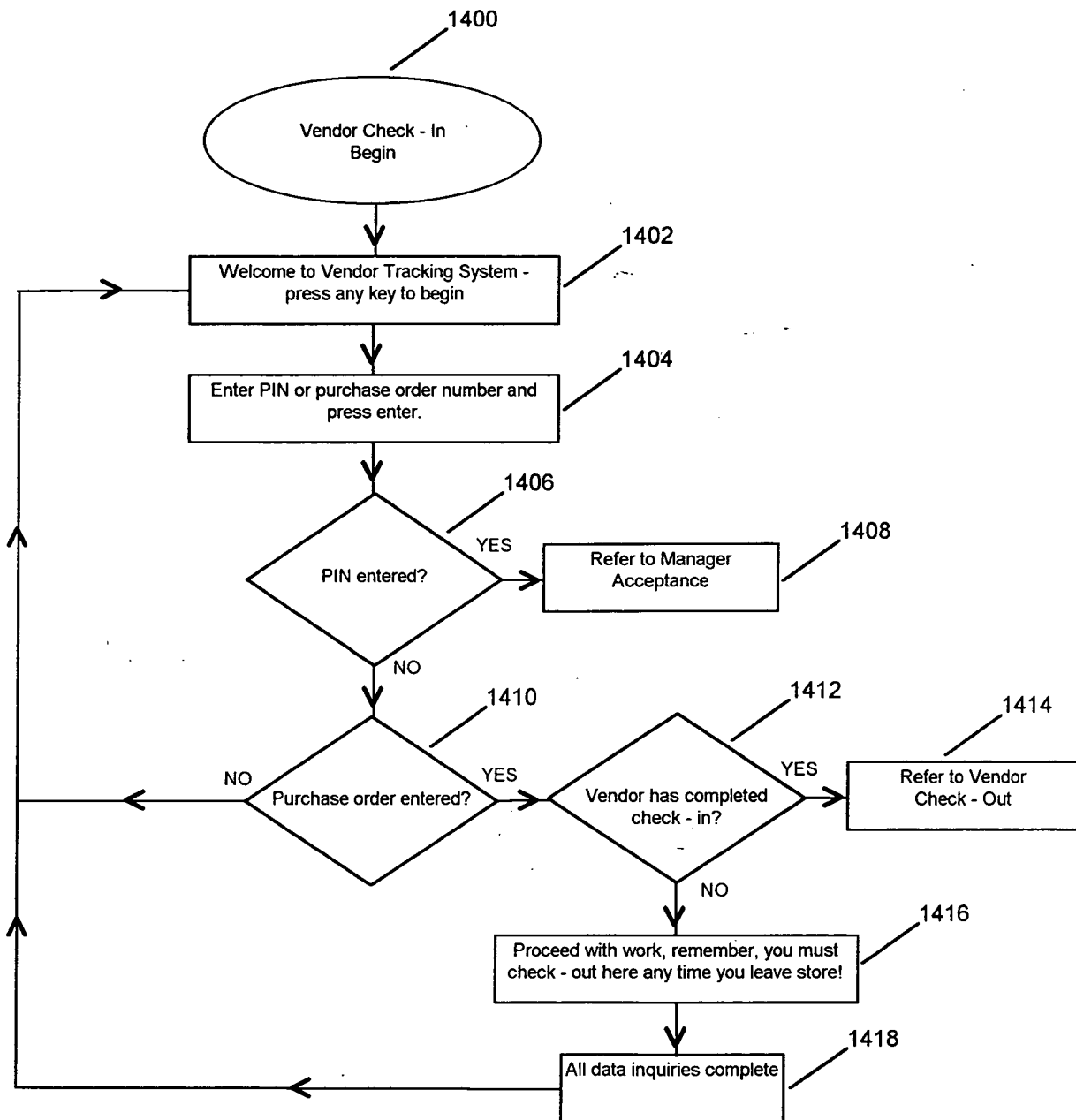


FIGURE 14



2025 RELEASE UNDER E.O. 14176

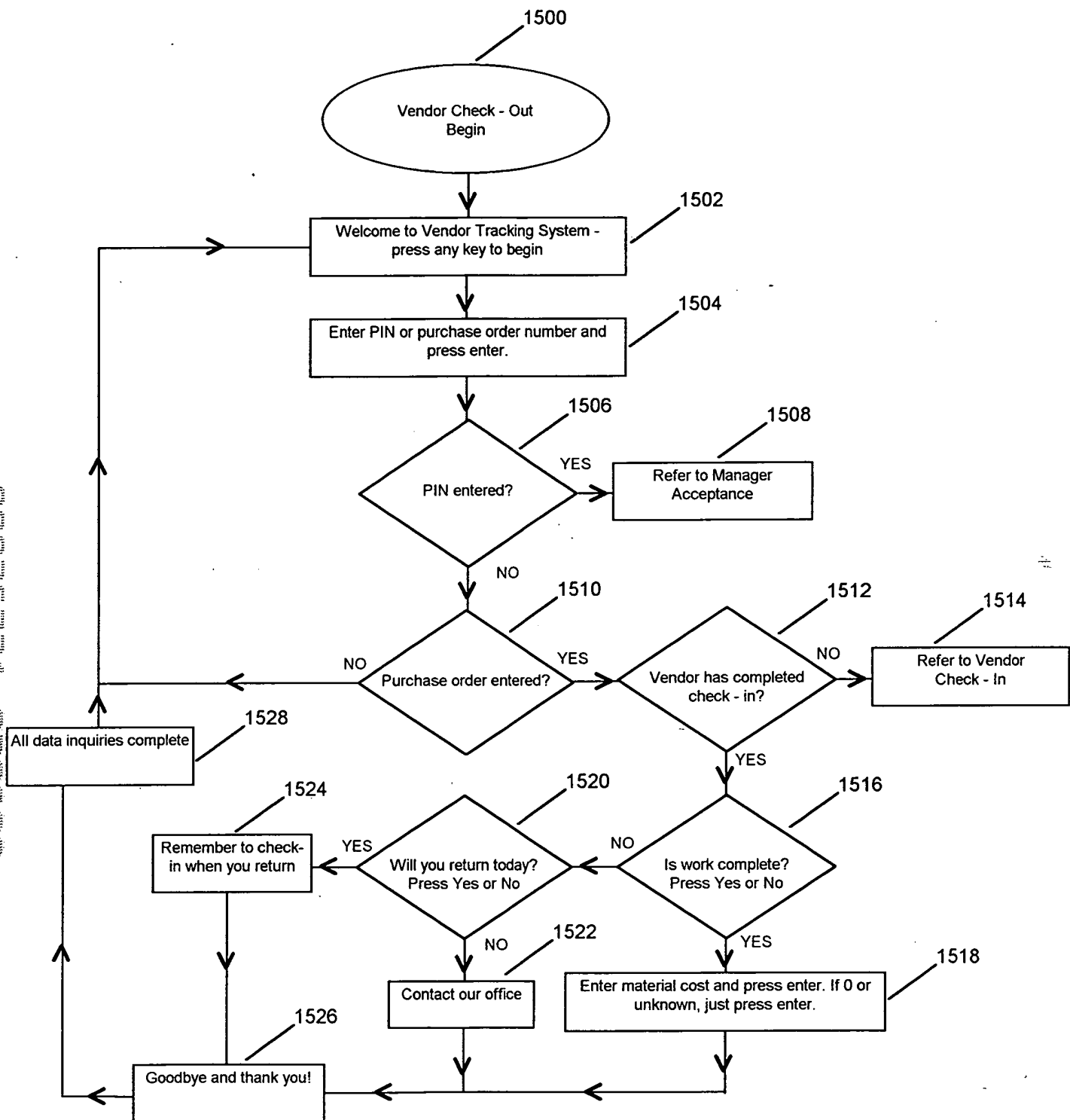


FIGURE 15

363000 T 230050

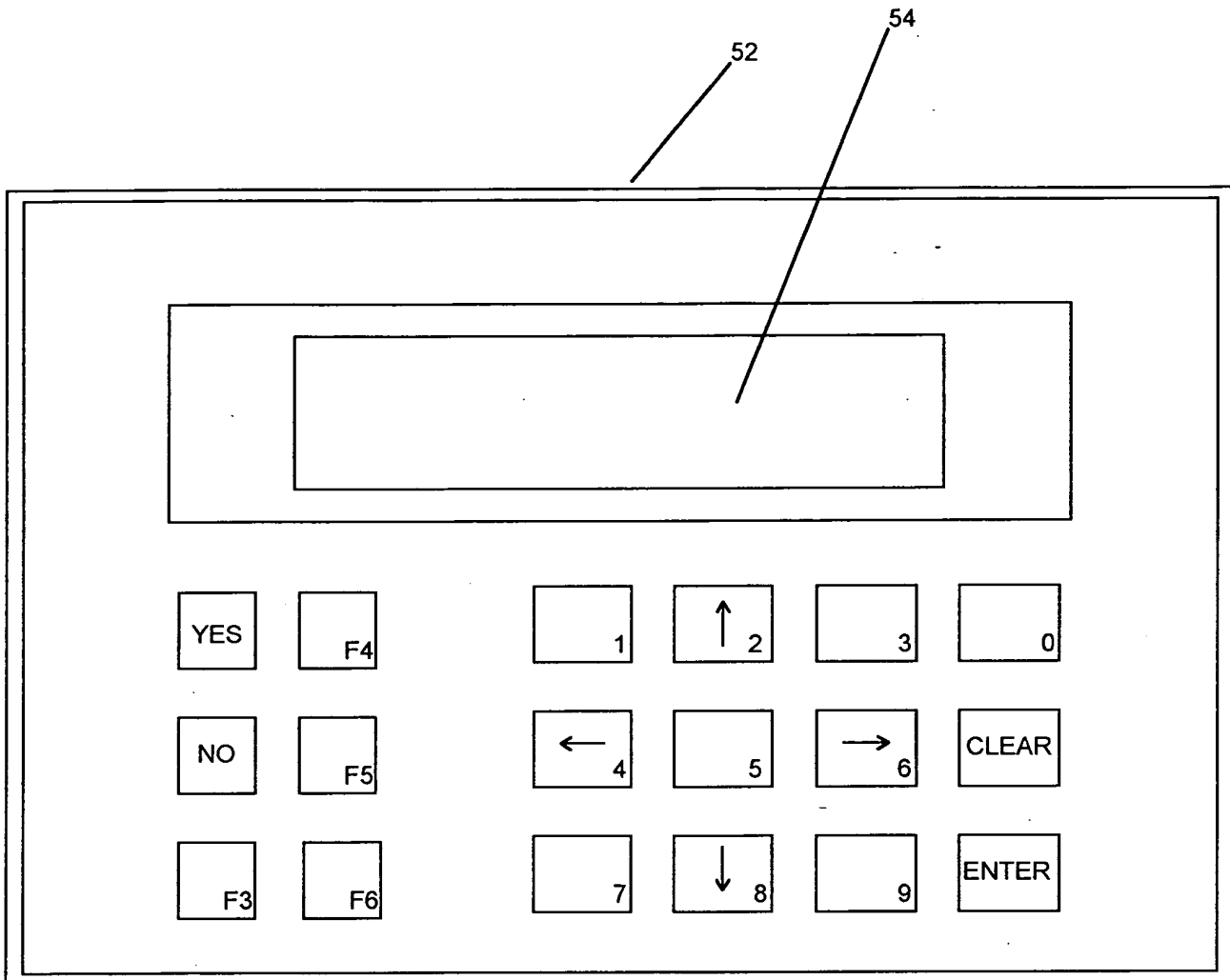


FIGURE 16

FIG. 17

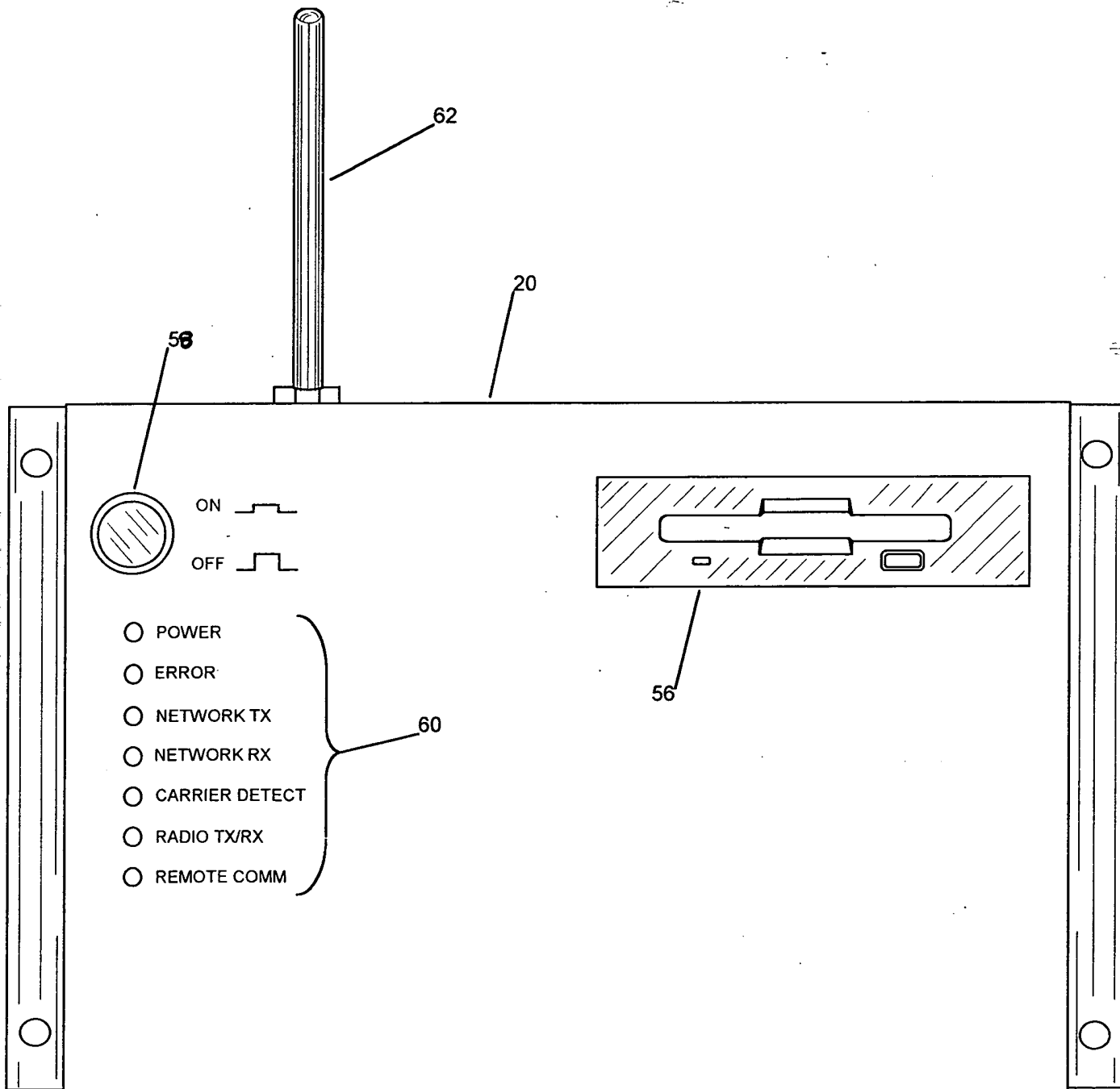


FIGURE 17

363020 T 2233050

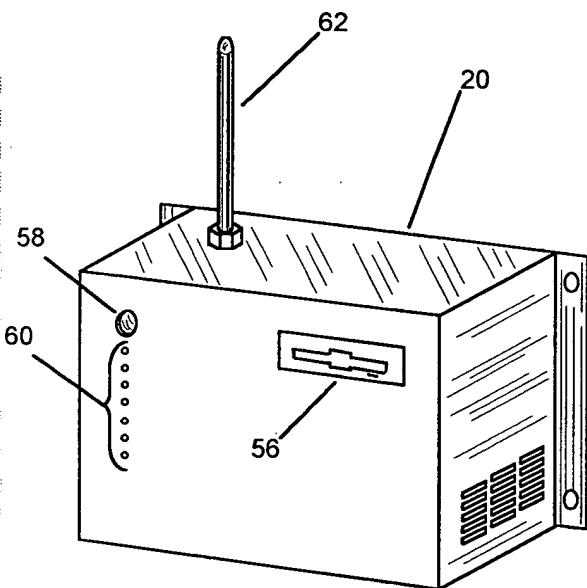


FIGURE 18B

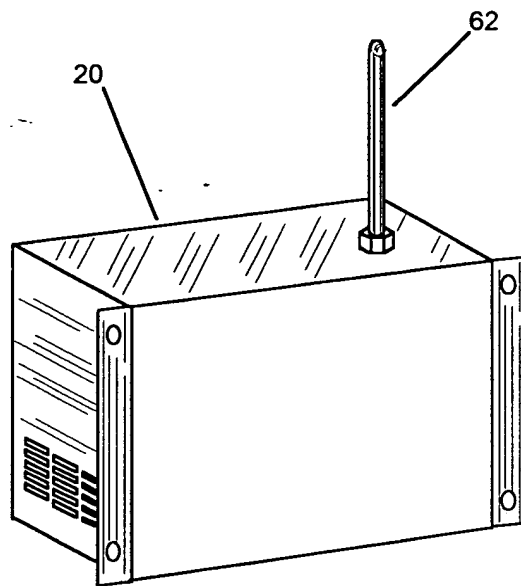


FIGURE 18A

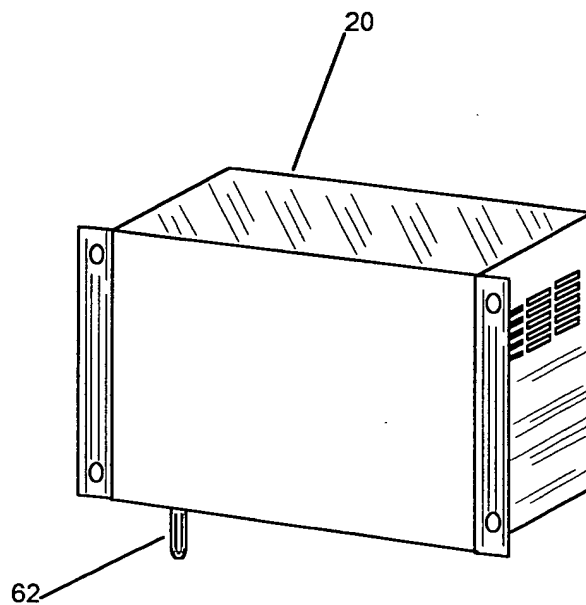


FIGURE 18C

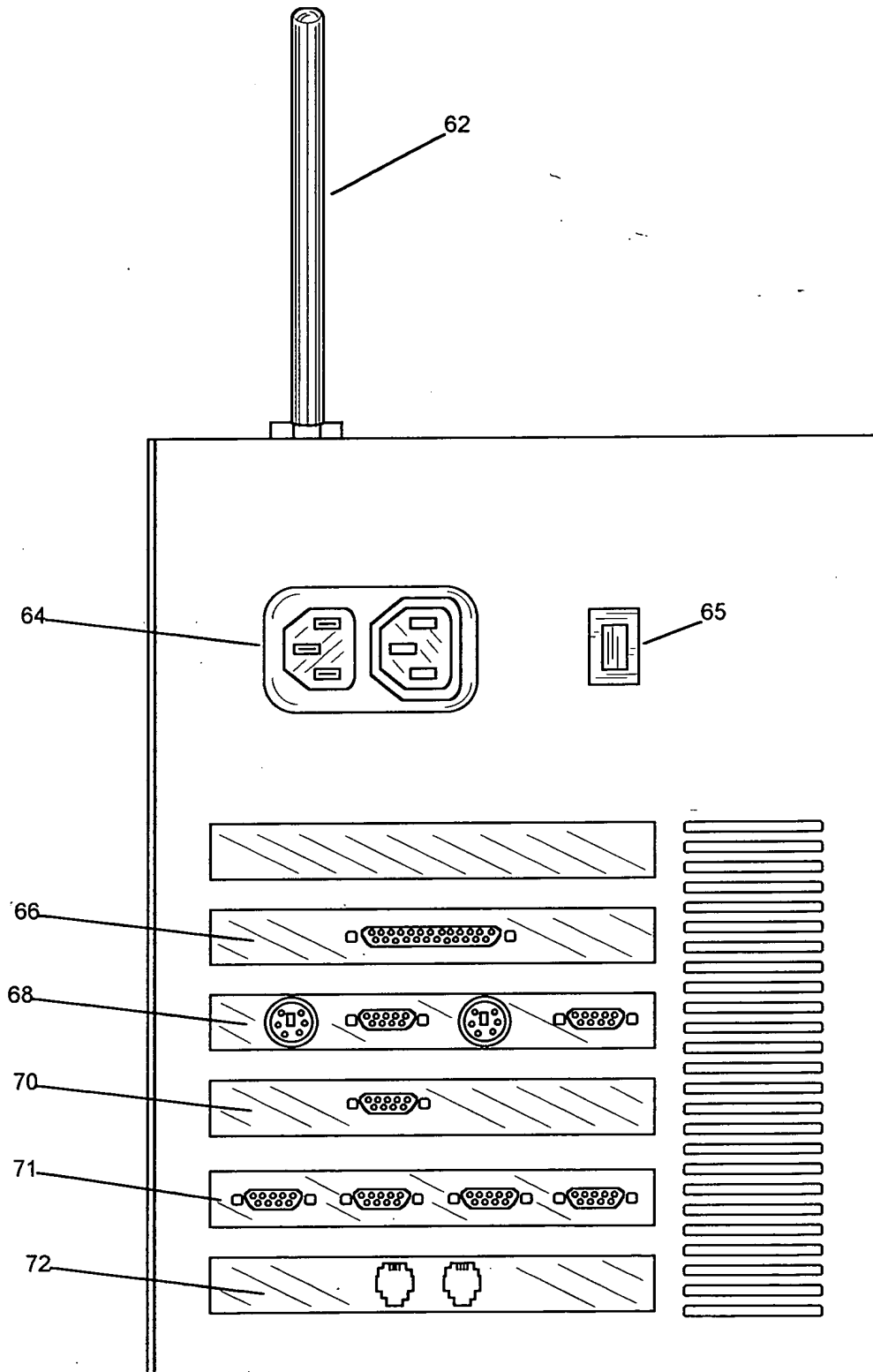
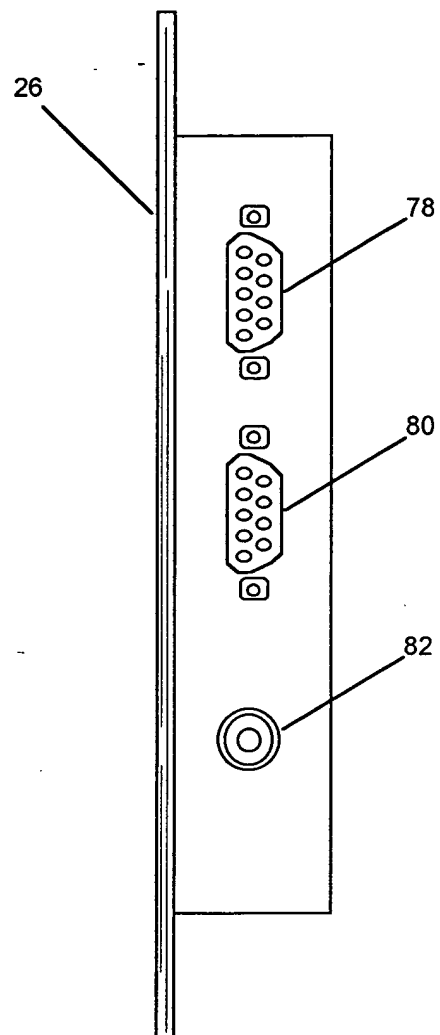
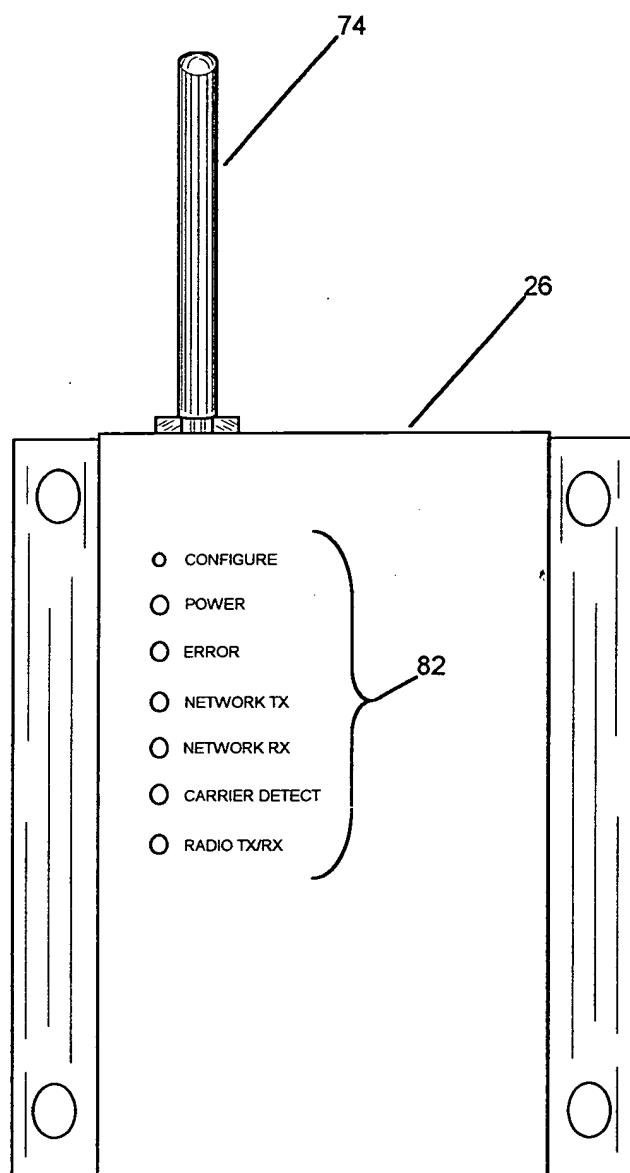


FIGURE 19



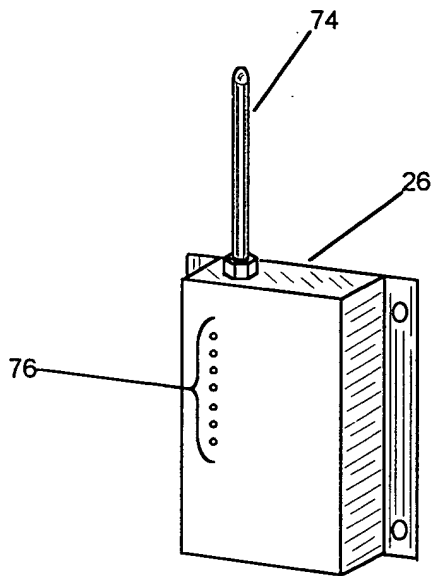


FIGURE 22B

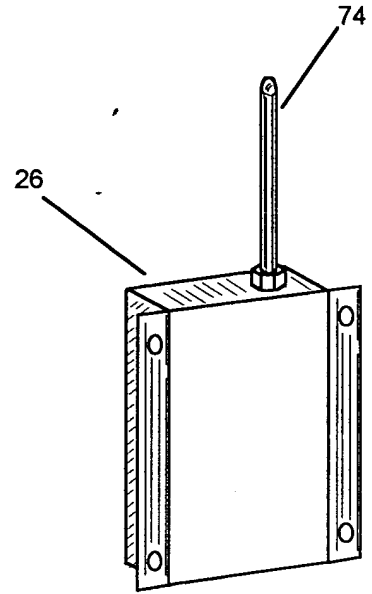


FIGURE 22A

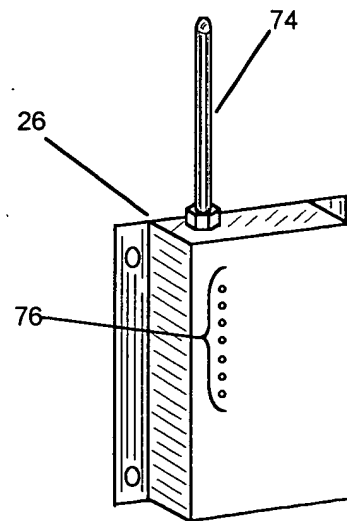


FIGURE 22C





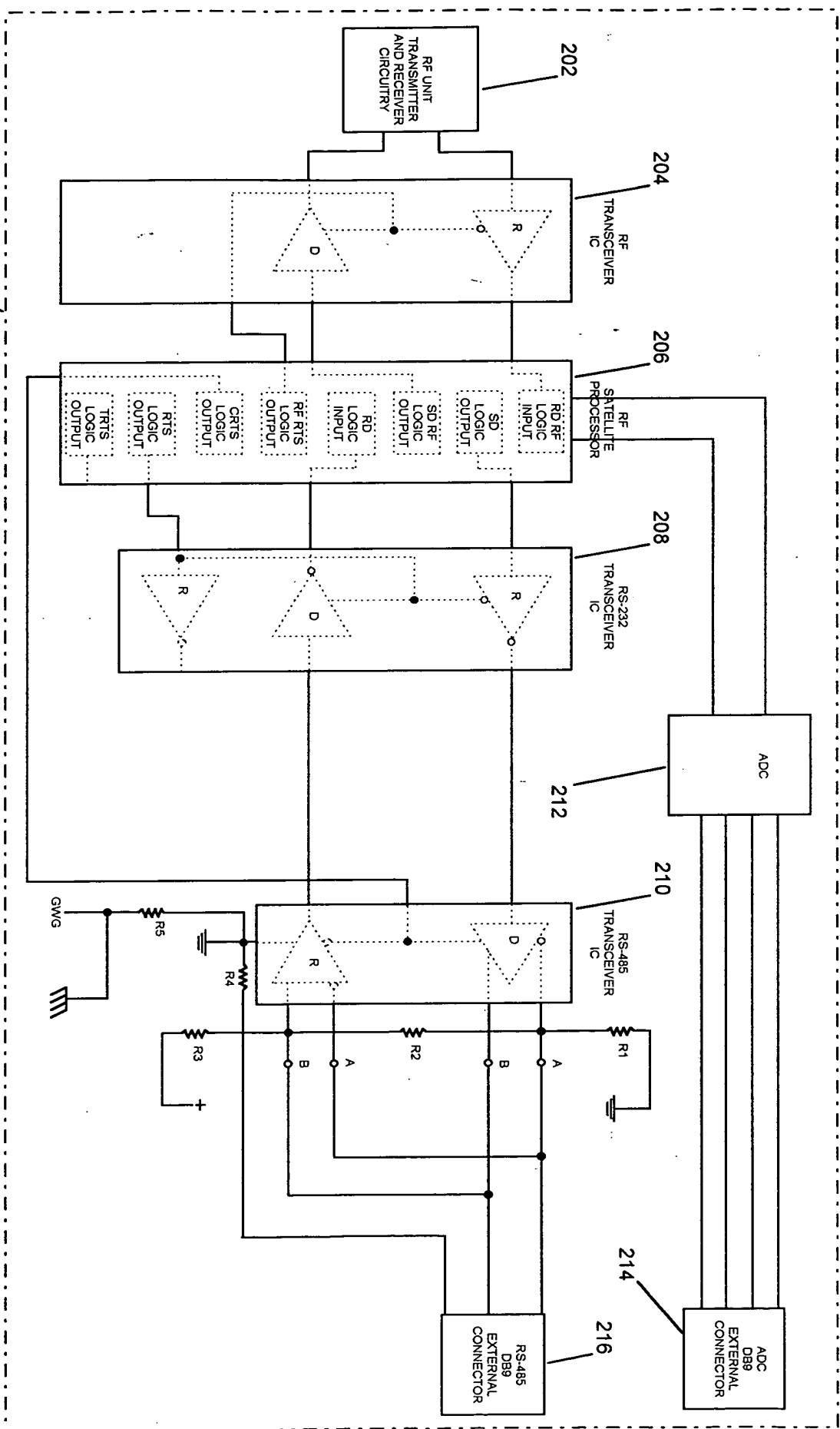


FIGURE 24

09036721.030602

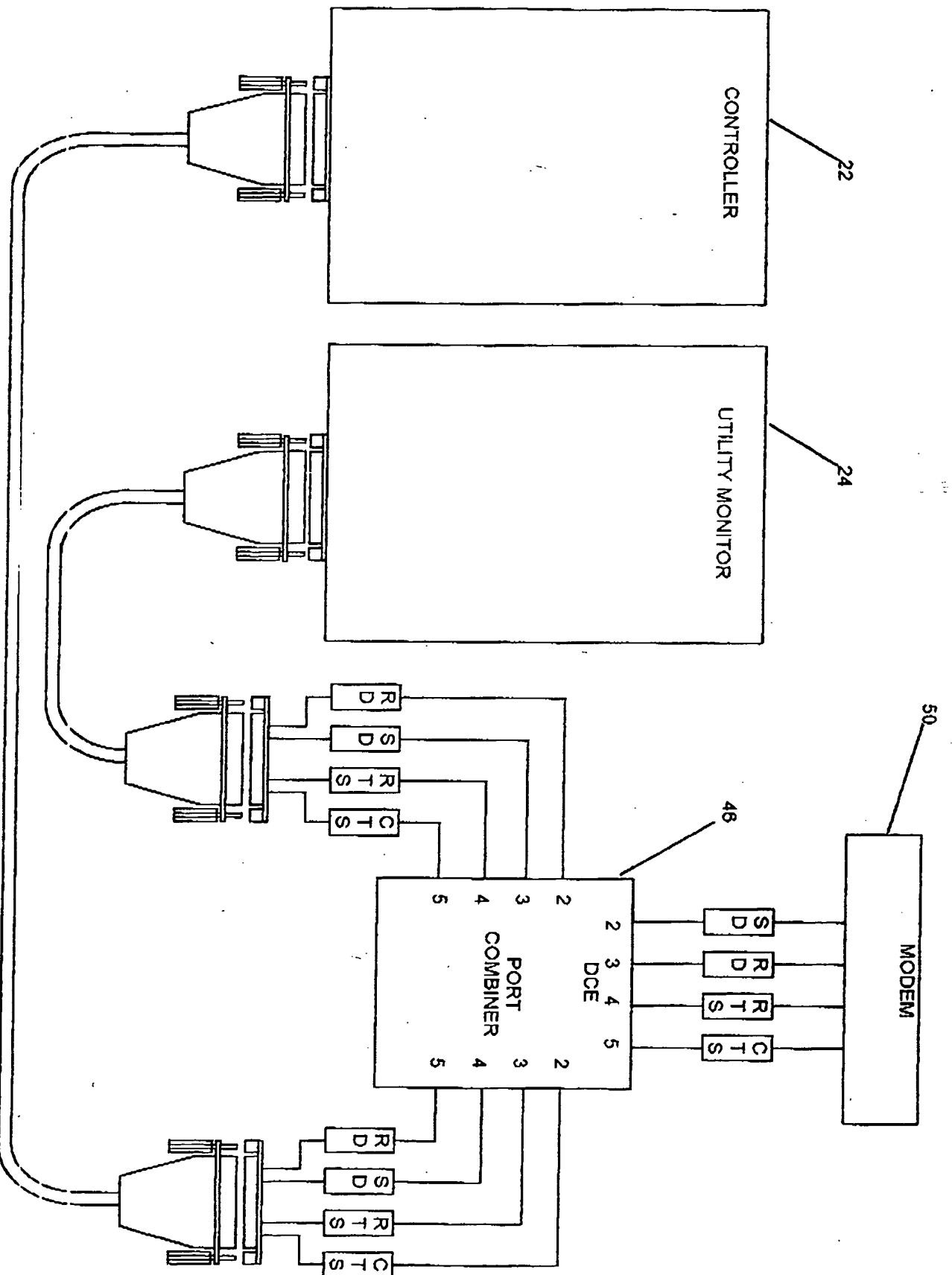


FIGURE 25

09036721.030692